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## NOTICE OF ALLOWANCE AND FEE(S) DUE

7590 06/26/2008

Pitney Bowes Inc. Intellectual Property and Technology Law Dept. 35 Waterview Drive P.O. Box 3000 Shelton, CT 06484 EXAMINER

WORKU, NEGUSSIE

ART UNIT PAPER NUMBER

2625

DATE MAILED: 06/26/2008

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,664	11/24/2003	Bertrand Haas	F-713	6208

TITLE OF INVENTION: FRAGILE WATERMARK FOR DETECTING PRINTED IMAGE COPIES

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1440	\$300	\$0	\$1740	09/26/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

### PART B - FEE(S) TRANSMITTAL

### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where n

appropriate. All further ndicated unless correcte naintenance fee notifica		ng the Patent, advance on nerwise in Block 1, by (a	rders and notification  a) specifying a new co	of m orresp	aintenance fees wi oondence address;	ll be and/or	mailed to the current of (b) indicating a separ-	orrespondence address as ate "FEE ADDRESS" for
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P.O. Box 3000 Shelton, CT 064		[		(Depositor's name)				
Shenon, C1 oo l								(Signature)
								(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVEN	TOR		ATTO:	RNEY DOCKET NO.	CONFIRMATION NO.
10/720,664	11/24/2003		Bertrand Haas				F-713	6208
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nonprovisional	NO	\$1440	\$300		\$0		\$1740	09/26/2008
EXAM	IINER	ART UNIT	CLASS-SUBCLASS					
WORKU, N	NEGUSSIE	2625	358-001150					
. Change of corresponde CFR 1.363).  Change of corresp Address form PTO/S1  "Fee Address" ind PTO/SB/47; Rev 03-6 Number is required.	(1) the names of u or agents OR, alter (2) the name of a sregistered attorney 2 registered patent	rinting on the patent front page, list names of up to 3 registered patent attorneys is OR, alternatively, name of a single firm (having as a member a ed attorney or agent) and the names of up to ered patent attorneys or agents. If no name is on name will be printed.						
PLEASE NOTE: Unl recordation as set fort (A) NAME OF ASSIG	less an assignee is ident h in 37 CFR 3.11. Comj GNEE	oletion of this form is NO	data will appear on the Tasubstitute for filing (B) RESIDENCE: (C	he pa g an a NTY	tent. If an assigne ssignment. and STATE OR CO	OUNT	'RY)	cument has been filed for
lease check the appropr	iate assignee category or	categories (will not be pr	rinted on the patent):		Individual 🖵 Cor	porati	on or other private grou	p entity Government
a. The following fee(s)  Issue Fee  Publication Fee (N  Advance Order - +	4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above)  ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).							
_ ` .	tus (from status indicate is SMALL ENTITY stati		☐ b. Applicant is no	long	er claiming SMAL	L ENT	ΓΙΤΥ status. See 37 CFI	R 1.27(g)(2).
OTE: The Issue Fee an	d Publication Fee (if rea		d from anyone other th					assignee or other party in
Authorized Signature					Date			
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10/720,664	11/24/2003	Bertrand Haas	F-713	6208
75	590 06/26/2008		EXAM	INER
Pitney Bowes Inc	<b>.</b> .	WORKU, NEGUSSIE		
Intellectual Propert	ty and Technology Lav	ART UNIT	PAPER NUMBER	
35 Waterview Driv	ve .		2625	
P.O. Box 3000			DATE MAILED: 06/26/2008	
Shelton, CT 06484				-

### Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 989 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 989 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/720,664	HAAS ET AL.			
Notice of Allowability	Examiner	Art Unit			
	NEGUSSIE WORKU	2625			
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this or other appropriate communica IGHTS. This application is subje	application. If not included tion will be mailed in due course. <b>TH</b>			
1. This communication is responsive to <u>May 21, 2008</u> .					
2. ☑ The allowed claim(s) is/are <u>11-24</u> .					
<ul> <li>3. ☐ Acknowledgment is made of a claim for foreign priority ur</li> <li>a) ☐ All b) ☐ Some* c) ☐ None of the:</li> <li>1. ☐ Certified copies of the priority documents have</li> <li>2. ☐ Certified copies of the priority documents have</li> </ul>	e been received.				
3. Copies of the certified copies of the priority do	cuments have been received in t	his national stage application from th	ne		
International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		ply complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftspers		TO-948) attached			
1) ☐ hereto or 2) ☐ to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date	s Amendment / Comment or in th	e Office action of			
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>					
Attachment(s)	5 Notice of Inform	ol Dotont Application			
1. Notice of References Cited (PTO-892)	5. Notice of Inform	• •			
<ol> <li>Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>☑ Information Disclosure Statements (PTO/SB/08),</li> </ol>	6.	Date .			
Paper No./Mail Date <u>See Continuation Sheet</u> 4. Examiner's Comment Regarding Requirement for Deposit	<u>_</u>	ement of Reasons for Allowance			
of Biological Material	 9.				
	/Edward L. Coles/	/Edward L. Coles/			

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 05/16/08; 09/26/07;11/24/03;.

### **DETAILED ACTION**

### Reasons for Allowance

1. The following is an examiner's statement of reasons for allowance: In response to the final Office action dated April 8, 2008, and further to the amendments filed May 21, 2008, applicant's request for reconsideration of the claimed invention, in view of the amendments and remarks have been reviewed and respectfully considered.

According to applicant's response claims 1-10, in which, previously rejected are currently cancelled. Claims 11 through 24 are currently pending in the application.

Examiner had previously indicated that claims (11-24) were allowed in the last final Office action. Since all previously rejected claims (i.e., 1-10) are cancelled by applicant's amendment, the remaining previously allowed claims 11-24 are pending, and therefore, those claims (11-24) are allowed for the reasons given below:

Claims 11 through 17, are allowed for the reason the prior art searched and of record neither anticipates nor suggests a method of determining whether a printed-image-under examination (PIUE) is a original printed image, with a fragile watermark the method comprising: scanning the PIUE to generate scanned image data, the scanned image data comprising pixel data, the pixel data comprising gray scale values and representing the PIUE as a set of scanning pixels; forming a plurality of data blocks from the scanned image data, each data block consisting of pixel data which

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corresponds to a respective region of the PIUE; determining for each of the data blocks an average value of the pixel data in the data block; determining for each of the data blocks an index value based on the average value of the pixel data in the data block; for each data block, calculating a difference between the index value for the data block and a value that represents a target value for a corresponding block of pixel data that was used to generate the original printed image, and determining whether the PIUE is the original printer images with the fragile watermark.

Claims 18 through 24, are also allowed for the reason the prior art searched and of record neither anticipates nor suggests a method of determining whether a printed-image-under-examination (PIUE) is a original printed image, with a fragile watermark the method comprising: scanning the PIUE to generate scanned image data, the scanned image data comprising pixel data, the pixel data comprising gray scale values and representing the PIUE as a set of scanning pixels; forming a plurality of data blocks from the scanned image data, each data block consisting of pixel data which corresponds to a respective region of the PIUE; determining for each of the data blocks an average value of the pixel data in the data block; determining for each of the data blocks an index value based on the average value of the pixel data in the data block and an expected value of the index value; and determining whether the PIUE is the original printed image with the fragile watermark.

Therefore, independent claims 11 and 18, including all dependent claims depend on there form are also allowed for the reason the prior art searched and of record neither anticipates nor suggests the claimed invention as amended.

### Conclusion

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to NEGUSSIE WORKU whose telephone number is (571)272-7472. The examiner can normally be reached on 9A-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward Coles can be reached on 571-272-7402. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000

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Art Unit: 2625

Examiner, Art Unit 2625

/Edward L. Coles/

Supervisory Patent Examiner, Art Unit 2625